



PUIaudio



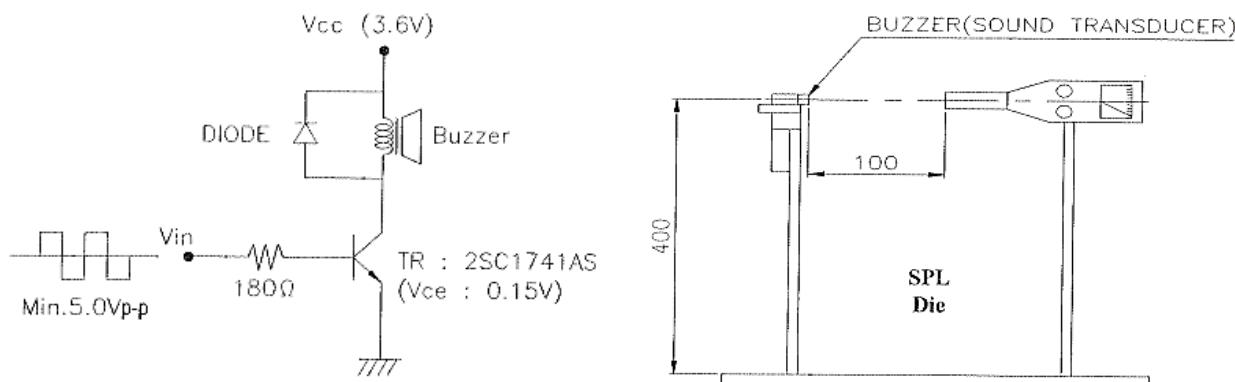
Data Sheet

SMT-0825-S-4-R

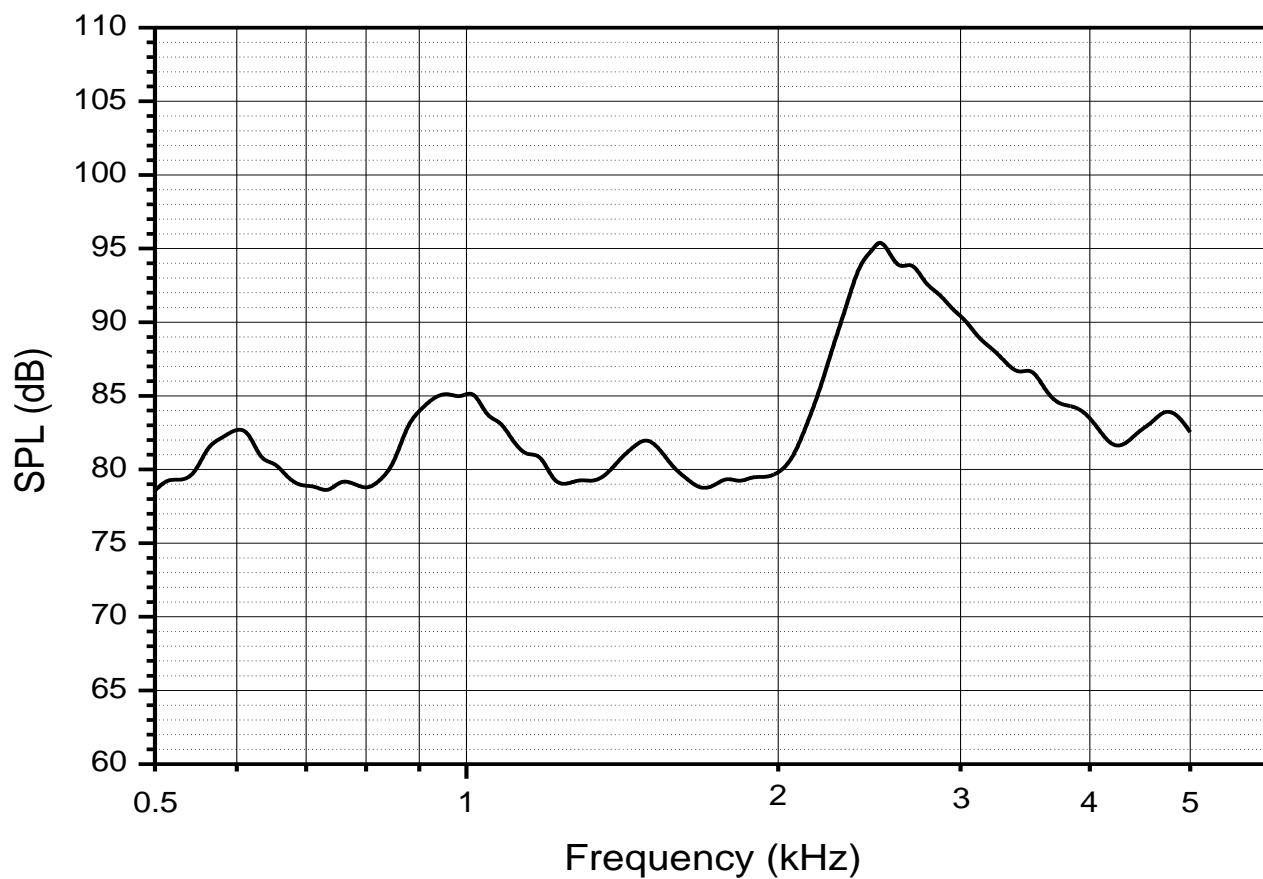
Specifications

Parameters	Values	Units
Rated Voltage	3.6	V0-pk
Operating Voltage Range	2.5 – 4.5	V0-pk
Current Draw at Rated Voltage	90 (Max.)	mA
Coil Resistance	15 ± 3	Ohms
Minimum SPL @ 10cm	85	dBA
Resonant Frequency	2500	Hz
Housing Material	LCP	-
Terminal Material	Sn plated Phosphor Bronze	-
Weight	0.40	Grams
Acceptable Soldering Methods	Hand Solder, Reflow Solder	See page 2 for soldering information
Environmental Compliances	ROHS/REACH	-
Moisture Sensitivity Level (MSL)	2	-
Storage Temperature	-40 to 85	°C
Operating Temperature	-30 to 70	°C

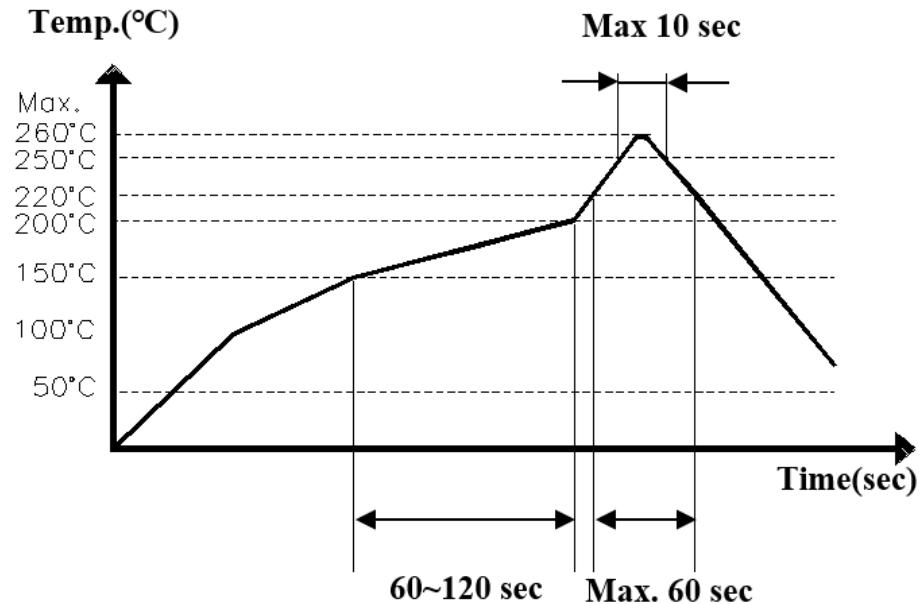
Measurement Method (Square Wave 3.6Vpk, 2.5kHz @ 10cm)



Typical Frequency Response (3.6Vpk, 10cm)



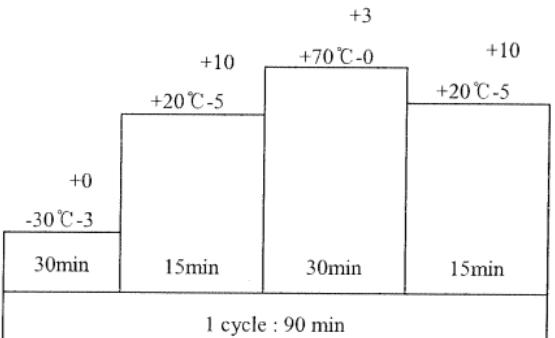
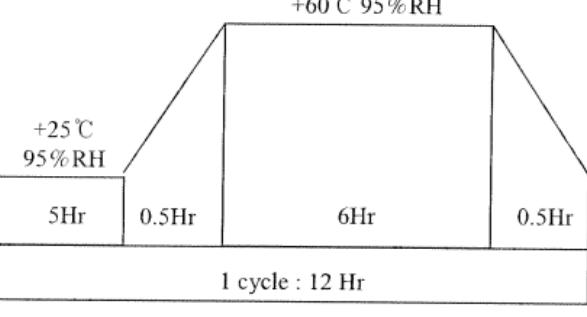
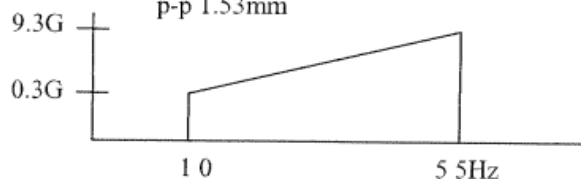
Recommended Soldering Procedure



* Reflow profile of lead-free.

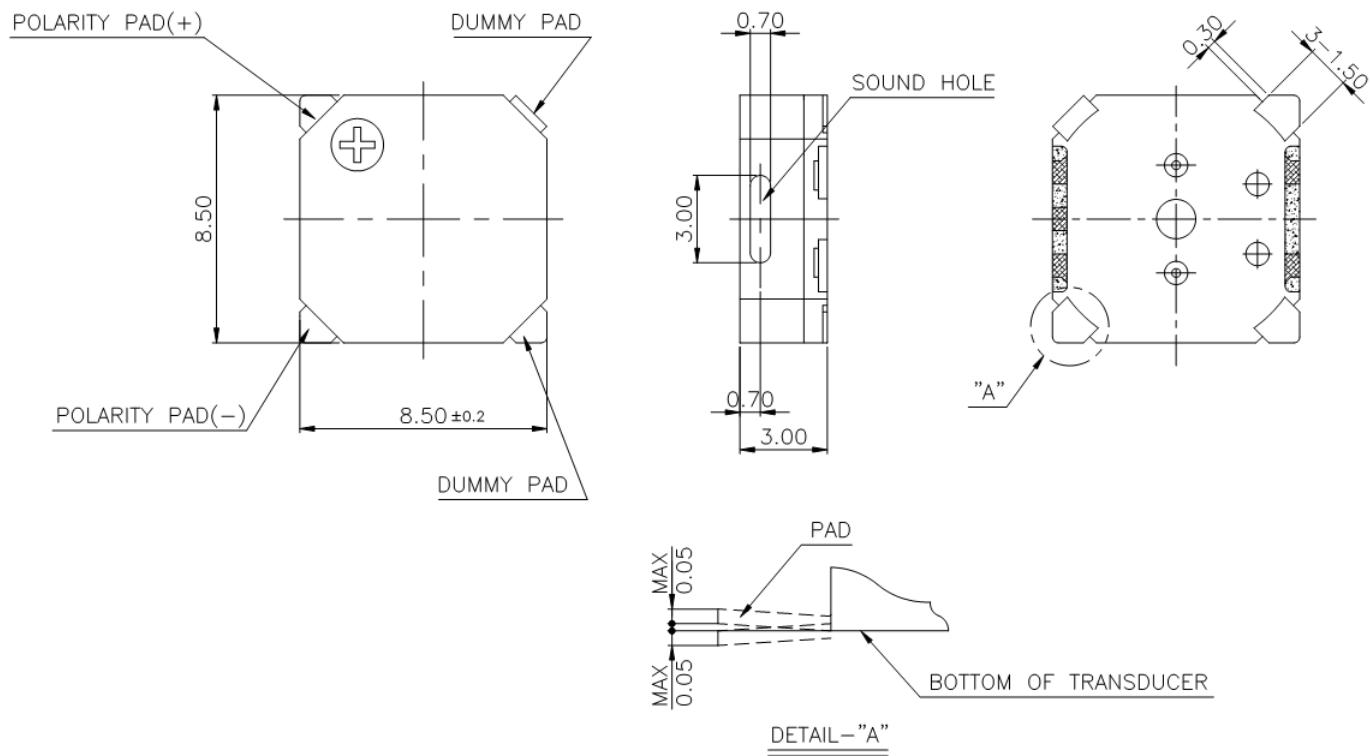
* Manual Soldering Temperature: 350°C within 10 seconds.

Reliability Testing

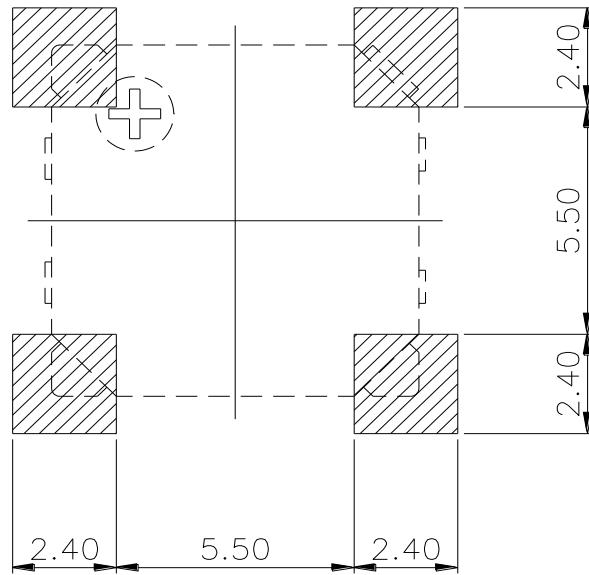
Type of Test	Test Specifications
High Temperature Test	96 hours at 85°C, then room temperature for 2 hours.
Low Temperature Test	96 hours at -40°C, then room temperature for 2 hours.
Humidity Test	 <p>1 cycle : 90 min</p>
	5 cycles of test above, then room temperature for 2 hours.
Temperature Cycle Testing	 <p>1 cycle : 12 Hr</p>
	10 cycles of test above, then room temperature for 2 hours.
Vibration Test	 <p>Test above for 2 hours, in each direction x, y, z.</p>
Drop Test	From a height of 120cm, drop the transducer onto 6 different surfaces, 3 times.

After these tests, the SPL variation should be within $\pm 5\text{dB}$.

Dimensions

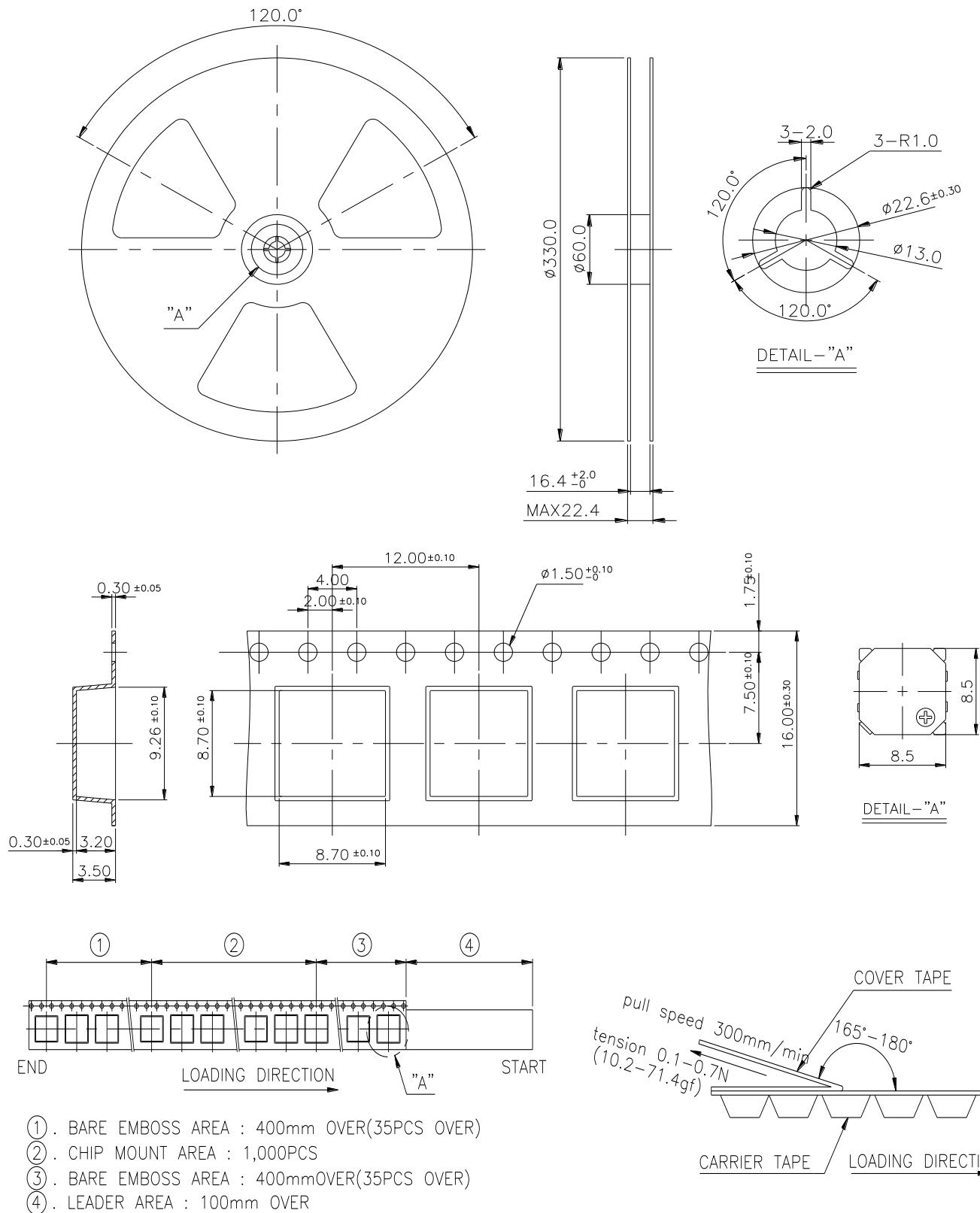


Suggested Land Pattern* *(for surface mount parts)*

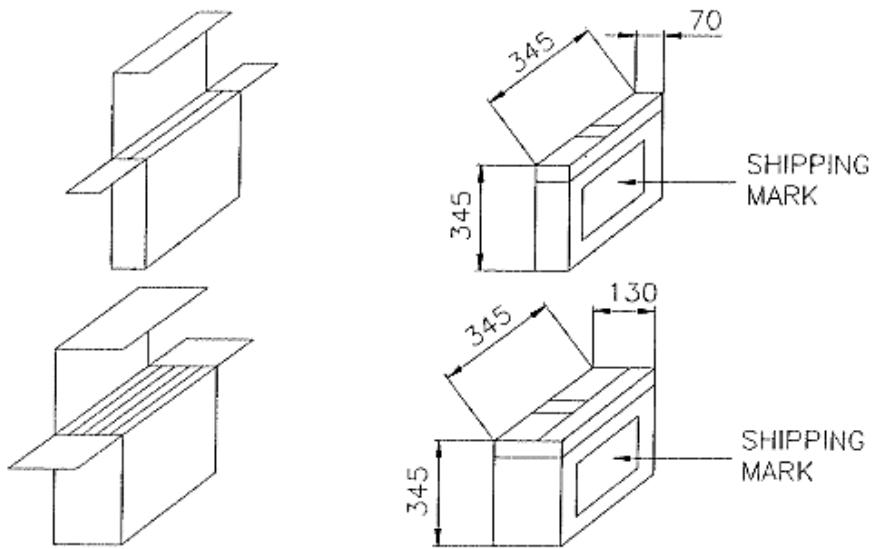


*This land pattern is advisory only and its use or adaptation is entirely voluntary. PUI Audio disclaims all liability of any kind associated with the use, application, or adaptation of this land pattern.

Packaging



1000 PCS per 1 roll by using the tapping M/C.
2 rolls or 5 rolls per 1 double carton box packed by polypropylene tape.



Specifications Revisions

Revision	Description	Date	Approved
-	Released from Engineering	04/01/2005	
A	Added RoHS compliance note	08/10/2005	
B	Revised to Inventor 3-D drawing template	04/30/2010	BR
C	Added reflow note	01/25/2019	ML
D	Revised voltage units, pad max deflection	02/28/2020	MV
E	Updated Spec Format, Add details for Packaging, Reliability, MSL 2 (lot 24L+)	02/24/2025	ML

Note:

1. Unless otherwise specified:
 - A. All dimensions are in millimeters.
 - B. Default tolerances are ± 0.5 mm and angles are $\pm 3^\circ$.
2. Specifications subject to change or withdrawal without notice.